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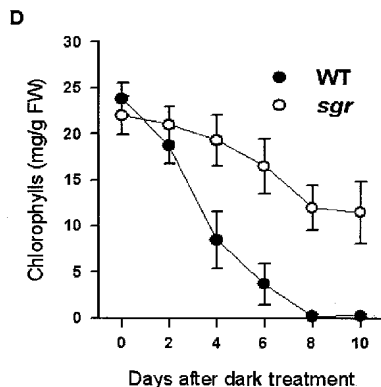
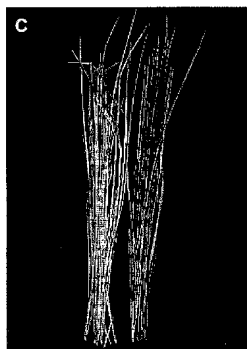
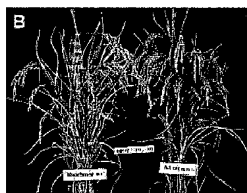
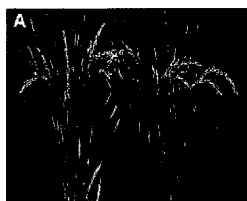
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[Continued on next page]

(54) Title: A NOVEL STAY-GREEN GENE AND METHOD FOR PREPARING STAY-GREEN TRANSGENIC PLANTS



(57) Abstract: The present invention relates to a novel *SGR* (*STAY-GREEN*) gene participating in chlorophyll catabolism during plant senescence, thereby causing leaf yellowing, a method for preparing stay-green transgenic plants maintaining greenness during leaf senescence, which being characterized by mutating the *SGR* gene, suppressing the expression of the *SGR* gene, or deactivating the *SGR* protein which is encoded by the *SGR* gene, and stay-green mutant plants produced by said method. According to the present invention, leaf greenness can be maintained for a long time by mutating the *SGR* gene, suppressing the expression of the *SGR* gene, or inactivating the protein encoded by the *SGR* gene, thereby preventing leaf yellowing of plants in yellowing plant caused by chlorophyll catabolism during leaf senescence.



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